Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	384	381/119.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 11:49
L2	2	L1 & "audio data recording/reproducing"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/16 11:49
S1	8	"5321198"	US-PGPUB; USPAT	OR	OFF	2004/11/26 13:11
S2	55	"6181870"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:12
S3	24351	"audio data"	US-PGPUB; USPAT	OR	OFF	2004/11/26 13:16
S4	724	S3 & "track data"	US-PGPUB; USPAT	OR	OFF	2004/11/26 13:15
S5	274	S4 & edit$	US-PGPUB; USPAT	OR	OFF	2004/11/26 13:16
S6	277	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:17
S7	277	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:23
S8	0	"audio data" & "track data" & edit$ & "cluster by cluster"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:23
S9	73	"audio data" & "track data" & edit$ & cluster	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:32

S10	45147	yamaha.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:33
S11	1728	S10 & audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:33
S12	400	S11 & recording	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:34
S13	83	S12 & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:34
S14	39	S13 & track	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:41
S15	8	("5315578").URPN.	USPAT	OR	OFF	2004/11/26 13:36
S16	8	("5315578").URPN.	USPAT	OR	OFF	2004/11/26 13:36
S17	2	("5321198" | "5525748").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/26 13:38
S18	1	JP11187354	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:41
S19	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:42

S20	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:44
S21	1	JP08185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:44
S22	0	JP8315551	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/26 13:45
S23	8	"9803353" "9845770"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/29 09:55
S24	8	"5321198"	US-PGPUB; USPAT	OR	OFF	2005/07/18 18:18
S25	66	"6181870"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S26	27911	"audio data"	US-PGPUB; USPAT	OR	OFF	2005/07/18 18:18
S27	788	S26 & "track data"	US-PGPUB; USPAT	OR	OFF	2005/07/18 18:18
S28	297	S27 & edit$	US-PGPUB; USPAT	OR	OFF	2005/07/18 18:18
S29	301	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:33
S30	301	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18

S31	0	"audio data" & "track data" & edit$ & "cluster by cluster"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S32	82	"audio data" & "track data" & edit$ & cluster	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S33	47386	yamaha.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S34	1911	S33 & audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S35	440	S34 & recording	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S36	95	S35 & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S37	45	S36 & track	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S38	9	("5315578").URPN.	USPAT	OR	OFF	2005/07/18 18:18
S39	9	("5315578").URPN.	USPAT	OR	OFF	2005/07/18 18:18
S40	2	("5321198" | "5525748").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/18 18:18

S41	1	JP11187354	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S42	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S43	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S44	1	JP08185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S45	0	JP8315551	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S46	8	"9803353" "9845770"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:18
S47	31	"audio data" & "track data" & edit$ & history	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:33
S48	414	"track history"	US-PGPUB; USPAT	OR	OFF	2005/07/18 18:44
S49	53	S48 & sound	US-PGPUB; USPAT	OR	OFF	2005/07/18 18:44
S50	1106	"non linear" same edit$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:46

S51	479	S50 & (audio sound)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:47
S52	167	S50 & ((audio sound) same track$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:47
S53	7	S52 & (history same list$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:57
S54	55	(audio near record$3) & (undo same operation$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:58
S55	45	S54 & track$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:59
S56	9	S54 & "track history"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/18 18:59
S57	1	"6181070".pn.	US-PGPUB; USPAT	OR	OFF	2005/07/19 09:43
S58	0	"6181070".pn. & "track" & "history"	US-PGPUB; USPAT	OR	OFF	2005/07/19 09:43
S59	0	"6181070".pn. & track	US-PGPUB; USPAT	OR	OFF	2005/07/19 09:43
S60	1	"6181070".pn.	US-PGPUB; USPAT	OR	OFF	2005/07/19 09:43
S61	0	S60 & track	US-PGPUB; USPAT	OR	OFF	2005/07/19 09:43
S62	1	"6181870".pn. & track & history	US-PGPUB; USPAT	OR	OFF	2005/07/19 09:44

S63	10	("5206929" | "5519828" | "5732184" | "5760767" | "5877781" | "5889519" | "6154207" | "6154601" | "6198873" | "6292619").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/19 11:39
S64	414	"track history"	US-PGPUB; USPAT	OR	OFF	2005/07/19 11:39
S65	129	S64 & (sound audio)	US-PGPUB; USPAT	OR	OFF	2005/07/19 11:42
S66	56	"track metadata"	US-PGPUB; USPAT	OR	OFF	2005/07/19 11:42
S67	38	S66 & (audio sound)	US-PGPUB; USPAT	OR	OFF	2005/07/19 11:42
S68	2	"5942708".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 17:02
S69	3	"6198035".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/14 17:02
S70	8	"5321198"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S71	74	"6181870"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S72	31700	"audio data"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S73	891	S72 & "track data"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S74	324	S73 & edit$	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S75	328	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S76	328	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11

S77	0	"audio data" & "track data" & edit$ & "cluster by cluster"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S78	92	"audio data" & "track data" & edit$ & cluster	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S79	49552	yamaha.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S80	2154	S79 & audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S81	488	S80 & recording	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S82	109	S81 & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S83	48	S82 & track	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S84	11	("5315578").URPN.	USPAT	OR	OFF	2006/02/14 17:11
S85	11	("5315578").URPN.	USPAT	OR	OFF	2006/02/14 17:11
S86	2	("5321198" | "5525748").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/14 17:11

S87	1	JP11187354	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S88	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S89	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S90	1	JP08185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S91	0	JP8315551	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S92	8	"9803353" "9845770"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S93	31700	"audio data"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S94	891	S93 & "track data"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S95	0	"audio data" & "track data" & edit$ & "cluster by cluster"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S96	49552	yamaha.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11

S97	2154	S96 & audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S98	488	S97 & recording	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S99	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 0	0	JP8185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 1	0	JP8315551	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 2	1	JP11187354	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 3	1	JP08185675	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 4	8	"5321198"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S10 5	74	"6181870"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11

S10 6	92	"audio data" & "track data" & edit$ & cluster	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 7	109	S98 & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 8	48	S107 & track	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S10 9	11	("5315578").URPN.	USPAT	OR	OFF	2006/02/14 17:11
S11 0	11	("5315578").URPN.	USPAT	OR	OFF	2006/02/14 17:11
S11 1	2	("5321198" | "5525748").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/14 17:11
S11 2	8	"9803353" "9845770"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S11 3	324	S94 & edit$	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S11 4	328	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S11 5	328	"audio data" & "track data" & edit$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S11 6	35	"audio data" & "track data" & edit$ & history	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11

S11 7	451	"track history"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S11 8	58	S117 & sound	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S11 9	1197	"non linear" same edit$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S12 0	517	S119 & (audio sound)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S12 1	182	S119 & ((audio sound) same track$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S12 2	7	S121 & (history same list$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S12 3	58	(audio near record$3) & (undo same operation$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S12 4	9	S123 & "track history"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
S12 5	48	S123 & track$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:11
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S12 7	0	"6181070".pn. & "track" & "history"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11

S12 8	0	"6181070".pn. & track	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S12 9	1	"6181070".pn.	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 0	0	S129 & track	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 1	1	"6181870".pn. & track & history	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 2	10	("5206929" | "5519828" | "5732184" | "5760767" | "5877781" | "5889519" | "6154207" | "6154601" | "6198873" | "6292619").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/14 17:11
S13 3	451	"track history"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 4	140	S133 & (sound audio)	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 5	94	"track metadata"	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 6	56	S135 & (audio sound)	US-PGPUB; USPAT	OR	OFF	2006/02/14 17:11
S13 7	1096	715/500.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/15 12:37
S13 8	282	715/500.ccls. & audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/15 12:37
S13 9	384	381/119.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 11:25
S14 0	1235	715/501.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/16 11:25
S14 1	319	S139 & audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/16 11:25

S14 2	59	S141 & tracks	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/16 11:25

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1 Wordspotting for voice editing and audio indexing   ▩
Lynn Wilcox, Ian Smith, Marcia Bush
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press
Full text available: 📄 pdf(181.11 KB)   Additional Information: full citation, references, citings, index terms

2 Speech and audio in window systems: when will they happen?   ▩
B. Arons, C. Schmandt, M. Hawley, H. Ludwig, P. Zellweger
July 1989 **ACM SIGGRAPH Computer Graphics , ACM SIGGRAPH 89 Panel Proceedings SIGGRAPH '89**, Volume 23 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(2.78 MB)   Additional Information: full citation, abstract, index terms

Good afternoon. Boy, I can't see anything out there. I assume you all can see me -- thats why these lights are here. My name is Chris Schmandt from the Media Lab at MIT. I'm co-chairing this panel with Barry Arons, who is sitting over here. It's actually quite a pleasure to co-chair this panel with Barry. We've been working together off and on for more years than I care to remember.

This panel has a long ridiculous name. Basically it's about audio and window systems and work ...

3 What mix of video and audio is useful for small groups doing remote real-time design ▩
work?
Judith S. Olson, Gary M. Olson, David K. Meader
May 1995 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: 📄 html(43.71 KB)   Additional Information: full citation, references, citings, index terms

4 Ubiquitous audio: capturing spontaneous collaboration   ▩
Debby Hindus, Chris Schmandt

December 1992 **Proceedings of the 1992 ACM conference on Computer-supported cooperative work**
Publisher: ACM Press
Full text available: pdf(902.74 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: collaborative work, multimedia workstation software, semi-structured data, software telephony, stored voice, ubiquitous computing

5 <u>Specifying temporal behavior in hypermedia documents</u>
M. Cecelia Buchanan, Polle T. Zellweger
December 1993 **Proceedings of the ACM conference on Hypertext**

Publisher: ACM Press
Full text available: pdf(989.34 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

6 <u>A distributed computer system for professional audio</u>
D. Anderson, R. Doris, J. Moorer
October 1994 **Proceedings of the second ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(599.89 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In professional audio, the transition from analog to digital technology is nearly complete. The more recent shift towards systems based on general-purpose computers has been gradual, because such computers lack the processing and I/O performance needed for professional audio applications. The SonicSystem, a professional digital audio system, solves these problems using DSPs and a specialized file system. We describe the uses and implementation of the SonicSystem.A distributed ver ...

7 <u>Porting SGI Audio Applications to Linux</u>
David Phillips, Richard Kent
September 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.
Full text available: html(18.27 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This article describes the process of porting a variety of audio applications from the SGI platform to the Linux operating system

8 <u>Audio-visual data mapping for GIS-based data: an experimental evaluation</u>
Suresh K. Lodha, Abigail J. Joseph, Jose C. Renteria
November 1999 **Proceedings of the 1999 workshop on new paradigms in information visualization and manipulation in conjunction with the eighth ACM internation conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(841.27 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this work, we present our experience of utilizing audio-visual data mappings for GIS-based information visualization. The application we choose is a GIS-based system for visualizing crime in a city. In this application, we enhance the pseudo-colored visual presentation of crime information by mapping data to several sound parameters — volume, balance, bass and treble. Our motivation for choosing sound in addition to vision is guided by our belief that data quantities mapped to vari ...

Keywords: evaluation, mapping, sonification, user interface, visualization

9 Computer-music interfaces: a survey
Bruce W. Pennycook
June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2
Publisher: ACM Press

Full text available: pdf(2.04 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper is a study of the unique problems posed by the use of computers by composers and performers of music. The paper begins with a presentation of the basic concepts involved in the musical interaction with computer devices, followed by a detailed discussion of three musical tasks: music manuscript preparation, music language interfaces for composition, and real-time performance interaction. Fundamental design principles are exposed through an examination of several early computer mus ...

10 Efficient placement of audio data on optical disks for real-time applications
Clement Yu, Wei Sun, Dina Bitton, Qi Yang, Richard Bruno, John Tullis
July 1989 **Communications of the ACM**, Volume 32 Issue 7
Publisher: ACM Press

Full text available: pdf(1.00 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Optical disks are among the most promising secondary storage devices for data-intensive applications and database management systems. A means of optimizing the storage capacity of optical disks is presented here.

11 A 3D audio only interactive Web browser: using spatialization to convey hypermedia document structure
Stuart Goose, Carsten Möller
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**
Publisher: ACM Press

Full text available: pdf(986.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

Interactive audio browsers provide both sighted and visually impaired users with access to the WWW. In addition to the desktop PC, audio browsing technology can be deployed that enable users to browse the WWW using a telephone or while driving a car. This paper describes a new conceptual model of the HTML document structure and its mapping to a 3D audio space. Novel features are discussed that provide information such as: an audio structural survey of the HTML document; accurate positional ...

Keywords: 3D audio, WWW, browsing, document structure, hypertext, spatialization

12 Implicit locking in the ensemble concurrent object-oriented graphics editor
R. E. Newman-Wolfe, M. L. Webb, M. Montes
December 1992 **Proceedings of the 1992 ACM conference on Computer-supported cooperative work**
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: full citation, references, citings, index terms

Keywords: DCS, collaborative editing, distributed conferencing, graphics editing,

groupware

13 Research in music and artificial intelligence
Curtis Roads
June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2
Publisher: ACM Press

Full text available: pdf(2.72 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Although the boundaries of artificial intelligence (AI) remain elusive, computers can now perform musical tasks that were formerly associated exclusively with naturally intelligent musicians. After a historical note, this paper sermonizes on the need for AI techniques in four areas of musical research: composition, performance, music theory, and digital sound processing. The next part surveys recent work involving AI and music. The discussion concentrates on applications in the four areas o ...

14 Integrating communication, cooperation, and awareness: the DIVA virtual office environment
Markus Sohlenkamp, Greg Chwelos
October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**
Publisher: ACM Press

Full text available: pdf(1.60 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

DIVA, a novel environment for group work, is presented. This prototype virtual office environment provides support for communication, cooperation, and awareness in both the synchronous and asynchronous modes, smoothly integrated into a simple and intuitive interface which may be viewed as a replacement for the standard graphical user interface desktop. In order to utilize the skills that people have acquired through years of shared work in real offices, DIVA is modeled after the standard of ...

Keywords: CSCW, awareness, groupware, integration, synchronous/asynchronous, virtual office

15 Visualizing music and audio using self-similarity
Jonathan Foote
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**
Publisher: ACM Press

Full text available: pdf(1.27 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents a novel approach to visualizing the time structure of music and audio. The acoustic similarity between any two instants of an audio recording is displayed in a 2D representation, allowing identification of structural and rhythmic characteristics. Examples are presented for classical and popular music. Applications include content-based analysis and segmentation, as well as tempo and structure extraction.

Keywords: audio analysis, audio similarity, music visualization

16 A development process for large multimedia titles
Mark Ryan, Rich Helms
October 1994 **Proceedings of the 12th annual international conference on Systems**

documentation: technical communications at the great divide
Publisher: ACM Press
Full text available: pdf(1.24 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Within IBM there are many groups that have made small-scale multimedia titles. Large titles, however, are not so common. This paper describes the process that we followed to create a large title, Experience C++. It begins with a description of why we decided to create a multimedia title about C++. It then describes the process that we followed to make the title. Finally, it describes the lessons that we learned and our plans for the future.

17 Pacers: time-elastic objects
Steven H. Tang, Mark A. Linton
December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology**
Publisher: ACM Press
Full text available: pdf(1.22 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: adaptive presentation, elastic objects, graphical user interfaces

18 An evaluation of audio-centric CMU wearable computers
Asim Smailagic
March 1999 **Mobile Networks and Applications**, Volume 4 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.69 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Carnegie Mellon's Wearable Computers project is defining the future for not only computing technologies but also for the use of computers in daily activities. Fifteen generations of CMU's wearable computers are evolutionary steps in the quest for new ways to improve and augment the integration of information in the mobile environment. The complexity of their architectures has increased by a factor of over 200, and the complexity of the applications has also increased significantly. In this ...

19 Synchronization in the MAEstro multimedia authoring environment
George D. Drapeau
September 1993 **Proceedings of the first ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(65.56 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>
ps(87.29 KB)

20 FILOCHAT: handwritten notes provide access to recorded conversations
Steve Whittaker, Patrick Hyland, Myrtle Wiley
April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**
Publisher: ACM Press
Full text available: pdf(848.13 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: audio, handwriting, indexing, notes, retrieval, speech-as-data

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